

KEIRA LAL; PETRIY, O.A.; PODLOVCHENKO, B.I.

Electrolytic oxidation of organic matters on platinumized
platinum at hydrogen adsorption potentials. Dokl. AN SSSR 158
no.6:1416-1419 O '64. (MIRA 17:12)

1. Moskovskiy gosudarstvennyy universitet im. Lomonosova.
Predstavleno akademikom A.N. Frumkinym.

ZAZUNOVA, Ye.M., kand.sel'skokhoz.nauk; PODOLICH, B.M.

At the faculties of plant protection. Zashch. rast. ot vred. i bol.
8 no.7:11-12 J1 '63. (MIRA 16:9)

1. Zamestitel' dekana agronomicheskogo fakul'teta Gruzinskogo
sel'skokhozyaystvennogo instituta (for Zazunova).

PODLOVOCHENKO, A.I.

PRIKHOTKO, A.F.

24(7)

13

PHASE I BOOK EXPLOITATION SOV/1365

L'vov. Universitet

Materialy I Vsesoyuznogo sveshchaniya po spektroskopii. t. 1: Molekulyarnaya spektroskopiya (Papers of the 10th All-Union Conference on Spectroscopy. Vol. 1: Molecular Spectroscopy) [L'vov] Izd-vo L'vovskogo univ-ta, 1957. 499 p. 4,000 copies printed. (Series: Its: Fizichnyy zbirnyk, vyp. 3/8/)

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po spektroskopii. Ed.: Gazer, S.L.; Tech. Ed.: Saranyuk, T.V.; Editorial Board: Landsterg, G.S., Academician (Resp. Ed., Deceased), Neporent, B.S., Doctor of Physical and Mathematical Sciences, Pabelinskiy, I.L., Doctor of Physical and Mathematical Sciences, Fabrikant, V.A., Doctor of Physical and Mathematical Sciences, Kornitskiy, V.G., Candidate of Technical Sciences, Rayskiy, S.N., Candidate of Physical and Mathematical Sciences, Klimovskiy, L.K., Candidate of Physical and Mathematical Sciences, Miliyanchuk, V.S., A. Ye., Candidate of Physical and Mathematical Sciences, and Glauberman,

Card 1/30

Lisitsa, M.P. Spectrophotometric Study of the Dispersion and Absorption of Solids

97

Podlovochenko, A.I., and M.M. Sushchinskiy. Use of Electronic Computers for the Calculation of Frequencies of Molecular Vibrations

99

Petrash, G.G., S.G. Rautian. Accuracy of the Measurement of Optical Density

102

Rautian, S.G., G.G. Petrash. Accuracy in Measuring the Narrow Absorption Lines While Excluding the Apparatus Function

107

Velichkina, T.S., L.P. Mikhayeva, and I.A. Yakovlev. Molecular Dispersion of Light During Phase Transformations in Solids

111

Ginzburg, V.L. Scattering of Light Near the Phase-Transition Points

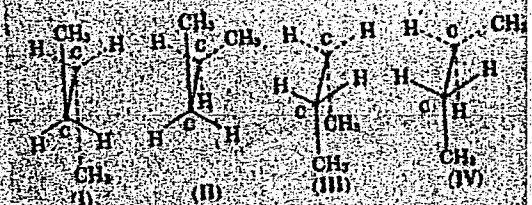
115

Card 8/30

PODLOVCHENKO, R.I.

Calculation and interpretation of vibrational spectra of rotational isomers of butane/ R. I. Podlovchenko and M. M. Sushchinski. *Optika i Spektroskopiya* 2, No. 1, 49-51 (1957). — Vibrational frequencies were calc. with the aid of electronic computer by the method of El'yashevich.

(cf. Dissertation, Phys. Inst. Acad. Sci., Moscow, 1944; C.A. 35, 2757; 36, 6082; 6900) and Stepanov (C.A. 42, 2228a) for I, II, III, and IV, isomers of butane. The calc.



frequencies for 4 isomers were compared with the exp. data of Mizushima and Sunaouiti (C.A. 43, 5309d) for liquid and solid phase and the infrared data of Rasmussen (C.A. 42, 6658b). In the Raman spectrum of solid butane all bands could be assigned to the vibration of isomer I possessing A_g and B_g type of symmetry. In the spectrum of liquid butane the same frequencies corresponded to the most intense lines. The intense lines in infrared belonged to isomer I with A_g and B_g type of vibrations. Thus, I was the main isomer which was predominant in all phases. The isomer II was present in considerable concentration.

Podol'skiy, K. I.
 in liquid and vapor phases. This was in agreement with
 previous observations (cf. Shppard and Szasz, *Ch. A. 43*,
 2366; Vol'kenshteyn, et al., *Vibration of Molecules*, 1949
 (Moscow: State Publ. Tech. Lit.)). A comparison of the
 theoretical values with the exper. data showed, contrary to
 general opinion about the complete instability of both cis
 isomers, that certain lines in the spectra belonged to these
 isomers and that III was more stable than IV. In I
 the all-sym. frequency of core vibrations in the 60 cm.⁻¹
 region was the most intense. Strong 789 cm.⁻¹ line in the
 Raman spectrum of liquid butane belonged to the II isomer.
 The 320 cm.⁻¹ frequency, usually ascribed to II, was actu-
 ally III, and the line 223 cm.⁻¹ belonged to IV. A. J. K.

PM 2/5 MW

SOV/112-59-23-48115

Translation from: Referativnyy zhurnal Elektrotekhnika, 1959, Nr 23, p 120, (USSR)

AUTHOR: Podlovchenko, R.I.

TITLE: On Principal Programming Conceptions

PERIODICAL: V sb.: Probl. kibernetiki, Nr 1, Moscow, Gos. izd-vo fiz.-matem. lit. 1958, pp 128 - 134

ABSTRACT: The stages of programming for solving problems in digital computers are considered in a general form. The principal conceptions of a special mathematical apparatus necessary for programming are formulated. Definitions of the unit of information, i.e. of a final indivisible element of information, class of information, and system of unit of information (SUI) are established. The SUI is a finite set each element of which is realized by a certain unit of information out of the total information in question, that is it belongs to a certain class of information. A parameterization is introduced so that elements of a class of information are numbered by means of one or several parameters

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On Principal Programming Conceptions

SOV/112-59-23-48115

specific for the given class. A freely parameterized SUI is a system in which each element can be numbered by means of its parameters, that is, can be realized by any element of a certain class of information. A freely parameterized SUI is defined as a totality of all parameters which number the elements of the system. A superposition of connections on parameters leads to a connected parameterized system in which elements can assume a certain series of values only. A connection can be of the 1st and of the 2nd kind. A connection of the 1st kind separates out of a set, corresponding to some element of the SUI, a subset which can be considered as an independent set; the parameters introduced are called parameters of the 1st kind. The connection of the 2nd kind is superposed simultaneously on parameters corresponding to a number of elements belonging to different SUI; the parameters introduced are called parameters of the 2nd kind. A subcharacteristic of some connected parameterized system is called the characteristic of some equivalent system obtained by a transformation of the initial system taking into account the superposed connections. Conceptions of a sum, complement, intersection of two parameterized SUI and of an operator are introduced. Operator is defined as a function converting an input SUI into an output one.

Ya.N.G.



Card 2/2

PODLOUCHENKO, R.I.

90V/2660

PHASE I BOOK EXPLOITATION

16(1)
Vsesoyuznyy matematicheskiy s'ezd. 3rd, Moscow, 1956
Vsesoyuznyy matematicheskiy s'ezd. 3rd, Moscow, 1956. Doklady
i tezyisy ucheynykh (Transactions of the 3rd All-Union Mathema-
tical Conference in Moscow. 3rd; Summary of Sectional Reports.
Moscow, Izd-vo AN SSSR, 1959.

Reports of Foreign Scientists) Moscow, Izd-vo AN SSSR, 1959.
247 p. 2,500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Matematicheskiy institut.

Editorial Board: A.A. Abramov, V.G.

tech. Ed.: G.M. Shevchenko; Editorial Board: A.A. Abramov, V.G.

Boitovskiy, A.M. Vasil'yev, B.V. Medvedev, A.D. Myshkin, K.A.

Blizniak, E.A. Ostrozhnikov, V.A. Uspek, M.G. Chetayev, G. Ye.

Shilov, P. L. Ushakov, V.A. Uspek, M.G. Chetayev, G. Ye.

Shilov, and A.I. Shishov.

PURPOSE: This book is intended for mathematicians and physicists.

COVERAGE: The book is Volume IV of the Transactions of the Third All-Union Mathematical Conference, held in June and July 1956. The first part contains summaries of the papers presented by Soviet scientists at the conference. The second part contains summaries of reports submitted to the editor of the journal "Uspekhi matematicheskikh nauk" (Uspekhi matematicheskikh nauk) by non-Soviet scientists. In those cases when the editor of the journal did not submit a copy of his paper to the editor of the journal, the paper is not included in the book. The book is divided into two main parts. The first part contains summaries of the papers presented by Soviet scientists at the conference. The second part contains summaries of reports submitted to the editor of the journal "Uspekhi matematicheskikh nauk" (Uspekhi matematicheskikh nauk) by non-Soviet scientists. In those cases when the editor of the journal did not submit a copy of his paper to the editor of the journal, the paper is not included in the book. The book is divided into two main parts. The first part contains summaries of the papers presented by Soviet scientists at the conference. The second part contains summaries of reports submitted to the editor of the journal "Uspekhi matematicheskikh nauk" (Uspekhi matematicheskikh nauk) by non-Soviet scientists. In those cases when the editor of the journal did not submit a copy of his paper to the editor of the journal, the paper is not included in the book.

On certain methods of solving large

systems of matrix equations

On the construction of effective

means of matrix transformations

On the construction of effective

solutions of certain mixed boundary value problems of mathe-

matical physics for polygonal regions

On the use of electronic com-

puters in the calculation and interpretation of vibrational

molecular spectra

On the evaluation of eigenvalues of

linear operators in Hilbert space

Interpolation polynomials for

functions of two variables

807/61-2-4/39

AUTHORS: Podlovchenko, R.I., Sverdlov, L.K. and Sushchinskiy, M.M.

TITLE: Vibrational Spectra and Rotational Isomerism of 2,3-Dimethylbutane
(Kolobatel'nyye spektry i povorotnaya izomeriya 2,3-dimetilbutana)

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 2, pp 146-153 (USSR)

ABSTRACT: Vibrational frequencies of 2,3-dimethylbutane were calculated using the method described by Yel'yashevich and Stepanov (Ref 4). Four configurations of 2,3-dimethylbutane were discussed: symmetrical and non-symmetrical trans-isomers (known also as trans-isomer and "twisted" isomer), and symmetrical and non-symmetrical cis-isomers. They are shown in Fig 1 by diagrams a, b, c and d respectively. It was assumed that the force constants are the same for all the four isomers. The force constants were taken from the data on ethane and propane (Ref 4). Each of the four rotational isomers of 2,3-dimethylbutane has 54 normal vibrations. The notation used for natural vibrational coordinates is shown in Fig 2. The calculated frequencies of normal vibrations are given in table 1. The experimental data on the Raman and infrared spectra of 2,3-dimethylbutane (Refs 2, 5 and 6) are incomplete. The authors made some additional measurements, in particular measurements of the degree of depolarization of Raman lines. The experimental

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SOV/51-6-2-4/39

Vibrational Spectra and Rotational Isomerism of 2,3-Dimethylbutane

technique used was described by Sushchinskiy in Ref 7. The results obtained together with the data reported earlier in the literature are given in Table 2. Table 3 gives the interpretation of the vibrational spectra of the trans, "twisted" and cis-symmetrical isomers of 2,3-dimethylbutane. Comparing the calculated and experimental values the authors concluded that two rotational isomers exist in the liquid phase of 2,3-dimethylbutane: the trans-isomer and a non-symmetrical isomer which is intermediate between the "twisted" and the cis-symmetrical modifications. The characteristic frequencies of adjacent tertiary carbon atoms in 2,3-dimethylbutane and ten other hydrocarbons were also calculated and are given in Table 4. There are 2 figures, 4 tables and 9 references, 3 of which are Soviet and 6 English.

SUBMITTED: January 21, 1958

Card 2/2

PODLOVCHENKO, R. I. Cand Phys-Math Sci -- (diss) "Formal re-organizations of program schemes and their application in programming." Yerevan, 1960, 8 pp, (Moscow Order of Lenin Order of Labor Red Banner State Univ im M. V. Lomonosov. Faculty of Mechanical Mathematics), 150 copies, (KL,31-60, 140)

16.6800

S/582/60/000/003/007/009
D234/D305

AUTHOR: Podlovchenko, R.I. (Yerevan)

TITLE: On basic notions of programming. II

SOURCE: Problemy kibernetiki, no. 3, Moscow, 1960, 123 - 138

TEXT: The algorithm of the solution of a problem on digital computers imposes certain connections on the initial parameters of the numerical information, and this leads to the formation of new parameters called by the author equivalent parameters. If there is some parametrization of the classes of information, different from the initial parametrization, there is a connection between the equivalent parameters and the new parameters. If L' denotes the program scheme obtained from the initial scheme L by substituting new parameters for the equivalent ones, the problem considered in the paper is the construction of the transition from L to L' . Five examples are given (two deal with a transition to initial parameters) and multiplication of symmetrical matrices is considered separately. VB

SUBMITTED: January 16, 1958
Card 1/1

81397
S/020/60/132/06/17/068
B014/B007

16.6800

AUTHOR: Podlovchenko, R. I.

TITLE: The System of Concepts in Programing ¹⁶

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 6,
pp. 1287 - 1290

TEXT: In the present paper, one of the possible methods of defining the terms (operators, logical conditions, and sequence of operators) in setting up the program is investigated. Further, several relations between the sequences of operators are set up on the basis of their functioning. First, the description of the state of a storage with a vector is dealt with, and the representation of one set upon another with the help of operators is discussed. The author next passes on to sets consisting of operators and logical conditions. The elements of these sets are called terms. Furthermore, the properties of operator-sets are studied, and the term "coordinate pair" for the expression $(X_0, k + 1)$ is defined when the state X_0 of storage belongs to the domain of definition of the term $B^{k+1}(X_0)$. 

Card 1/2

81397

The System of Concepts in Programing

S/020/60/132/06/17/068
B014/B007

Further, the term "coordinate finite pair" and several special states of storage are defined. It is further shown that it is possible to construct the transformation of a sequence of operators M_2 in such a manner that the property of the inclusion of M_1 by M_2 is invariant. Thus, however, M_2 represents the scheme of a program provided the elements are correctly defined. Finally, a manner of applying the idea developed here to the matrix calculation is outlined. There are 9 Soviet references.

PRESENTED: February 26, 1960, by A. I. Berg, Academician

SUBMITTED: February 13, 1960

X

Card 2/2

PODLOVCHENKO, R.I.

Finding eigenvalues of matrices by the method of successive diagonalization on the electronic computer. Probl. kib. no.6:15-32 '61.

(MIRA 15:1)

(Programming (Electronic computers))

PODLOVCHENKO, R.I. (Yerevan)

A problem involving folding cycles. Probl. kib. no.9:123-138 '63.
(MIRA 17:10)

ACCESSION NR: AT4041986

S/2582/64/000/011/0131/0145

AUTHOR: Podlovchenko, R. I. (Yerevan)

TITLE: An example of the use of conversions of program logic system

SOURCE: Problemy* kibernetiki, no. 11, 1964, 131-145

TOPIC TAGS: computer programming, logic system, system conversion, program logic, boundary value problem, Dirichlet problem

ABSTRACT: The present paper illustrates the concepts involved in the formal conversion of logic systems described in previous papers, and is a continuation of previous work done by the author on obtaining the eigenvalues of a matrix by successive diagonalization, etc. The paper treats the Dirichlet problem of a square array when the boundary conditions of the function sought are symmetrical with respect to one of the diagonals of the matrix. A scheme is set up for obtaining the k-th approximation by an iteration method and an algorithm is constructed by defining a number of operators acting on the manifold of number-pairs and then combining them into an operator which carries out the k-th iteration on all the internal nodes of the grid derived from the original array. This leads to a logical statement which is the solution algorithm to the problem. Two logic systems for the algorithm are considered, one being more economical in storage required. Con-

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ACCESSION NR: AT4041986

version is then made from one system to the other to illustrate the notion of formal conversion of logic schemes, based on transformation of the parameters of the system, by mapping the grid of one onto the other. This gives rise to new operators whose properties are enumerated, and a new scheme which is equivalent to the second initial scheme, and which is then programmed for a conventional 3-address computer previously described by the author. (Orig. art. has: 1 computer program, 3 figures and 23 equations.

ASSOCIATION: Nauchnyy sovet po kompleksnoy probleme Kibernetiki Akademii nauk SSSR (Scientific Council of Complex Problems of Cybernetics, Academy of Sciences SSSR)
SUBMITTED: 20Oct62 ENCL: 00

SUB CODE: DP

NO REF SOV: 007

OTHER: 000

Card 2/2

PODLOVCHENKO, R. I., KRINITSKIY, N. A., YERSHOV, A. P.

"Review of Work on Logical Schemes of Algorithms"

presented at the All-Union Conference on Computational Mathematics and
Computational Techniques, Moscow, 16-28 November 1961

So: Problemy kibernetiki, Issue 5, 1961, pp 289-294

PODLOVCHENKO, R.I. (Yerevan)

Concerning the conversion of programming networks and their uses
in programming. Prob. kib. no.7:161-188 '62. (MIRA 15:4)
(Programming (Electronic computers))

16.6800

S/582/62/000/007/006/008
I001/I211AUTHOR: Podlovchenko, T. J. (Yerevan)

TITLE: On the transformations of program schemes and their use in programming

SOURCE: Problemy kibernetiki, no. 7, 1962, 161-188

TEXT: Some stages of processing an algorithm precede the compiling of a program that will realize this algorithm on an electronic computer. A. A. Lyapunov (Ref. 1: sb. Problemy kibernetiki, no. 1, M., Fizmatgiz, 1958, 46-74; Ref. 2: Matematicheskoye prosveshcheniye, no. 2, Gotechizdat, 1957, 81-85) has singled out of these stages the construction of the computing and of the program schemes. These two schemes are united under the title of logical program schemes. The use of logical program schemes made possible the construction of a certain algebraic calculus by which identical, in some sense, transformations of these schemes can be carried out. A number of modes of semi-containing transformations was found by a purely empirical method. These transformations make it possible to essentially simplify the program scheme. The main difficulty in systematizing these transformations was that the semi-containing concepts of operator, logical condition, counting and program schemes were useless.

JA

This paper which is a continuation of previous work by the same author (Ref. 4: sb. "Problemy kibernetiki", no. 1, M., Fizmatgiz, 1958, 128-134; Ref. 5: sb. Problemy kibernetiki, no. 3, M., Fizmatgiz, 1960, 123-138;

Card 1/2

PODLOWSKI, Sebastian; GORECKI, Jan

Production of chipboards in the "Interior" plant in Czechoslovakia.
Przem drzew 12 no.11:6-8 '61.

(Czechoslovakia—Woodwork)

PODLOWSKI, Sebastian

Chipboards from waste obtained from cleansing pulpwood. Przem drzew
13 no.2:8-11 '52.

PODLOWSKI, S.

"Calculating the volume of steam for a drying house." p. 16. (Przemysl Drzewny, Vol. 4, no. 5, May 53, Warszawa)

SO: Monthly List of East European Accessions, Vol. 3 No 6 Library of Congress Jun 54 Uncl

PODLOWSKI, S.

P.O.L.

4221

644.7.50.2.4: 621.1

Podlowski S. Computing Steam Consumption of Drying Kilns.

"Obliczenie zapotrzebowania pary dla suszarni" Przemysl Drzewny.
No. 5, 1933, pp. 16-17.

Prior to proceeding with the designing of a drying kiln it is essential to compile a steam balance sheet. Technical data from heat engineering practice necessary for the computation of steam consumption. Three means of estimating the quantity of steam required for a chamber type drying kiln which can be usefully adopted when compiling details of the project and used as a ready-reference for checking projects. The three methods suggested are explained on an example of computing the steam requirements of a Schille type single chamber drying kiln, the quantity of steam required being, for each individual instance, computed in kilograms per hour of drying.

PODLOWSKI, Tadeusz

Tetanus in the Rzeszow Region from 1/1, 1956 to 4/30, 1959.
Przegl.epidem. 14 no.2:129-132 '60.

1. Z Działu Epidemiologii Wojewódzkiej Stacji Sanitarno-
Epidemiologicznej w Rzeszowie Kierownik Działu: lek.med. A.Oles
Dyrektor Stacji: lek. med. Z.Mazurek
(TETANUS statist)

PODLOZHENOV, M.G.

Modernisation of the D16,5/20 engine series. Vest.mash. 33 no.9:20-22 S '53.
(MIRA 6:10)

(Gas and oil engines)

PODLOZHENOV, P.M.

VOROB'YEV, S.A., kand.tekhn.nauk, otv.red.; KONOVALOV, A.I., inzh., red.;
MAKARENKO, V.P., inzh., red.; MIAHEYEV, M.V., inzh., red.; NOVIKOVA,
N.T., inzh., red.; PIKHTOVNIKOV, R.V., prof., red.; PODLOZHENOV,
P.M., inzh., red.; SEMKO, M.F., prof., red.; TOROPOV, A.I., inzh.,
red.; TSERKOVNYY, I.M., inzh., red.; CHERKASHIN, I.P., inzh., red.;
SHEVCHENKO, M.G., tekhn.red.; LIMANOVA, M.I., tekhn.red.

[Mechanization and automation of production processes; proceedings
of the city technical conference] Mekhanizatsiia i avtomatizatsiia
proizvodstvennykh protsessov; sbornik materialov gorodskoi tekhnicheskoi konferentsii. Khar'kov, Khar'kovskoe knizhnoe izd-vo,
1959. 295 p. (MIRA 13:1)

1. Kommunisticheskaya partiya Ukrainy. Khar'kovskiy gorodskoy
komitet. 2. Nachal'nik Ukrainskoy proyektno-konstruktorskoy
kontory "Prommekhanizatsiya". (for TSerkovnyy).
(Automation) (Technological innovations)

PODLOZHENOV, Pavel Mikhaylovich; LYALYUK, I.P., red.

[Mechanization, automation and production quality] Me-
khanizatsiia, avtomatizatsiia i kachestvo produktii.
Khar'kov, Khar'kovskoe knizhnoe izd-vo, 1962. 69 p.

(MIRA 17:12)

1. Glavnyy inzhener Khar'kovskogo podshipnikovogo zavoda
(for Podlozhenov).

BALEZIN, S.A.; PODOBAYEV, N.I.; GLIKINA, F.B.; KURBANOV, F.

Inhibitors for the hydrochloric acidization of oil wells
with high bottom hole temperatures. Neft. khoz. 42 no. 3:
35-38 Mr '64. (MIRA 17:7)

PODLUBNYI, L.I.

Formation of molecular ions in collisions of slow atoms. Zhur. eksp. i
teor. fiz. 47 no.2:558-563 Ag '64. (MIRA 17:10)

1. Moskovskiy energeticheskiy institut.

15

Electrometric Ferrocyanide Method for Sugar Determination. (In Russian.) E. T. Podlubnaya and P. S. Bukharov. *Zhurnal Analiticheskoi Khimii* (Journal of Analytical Chemistry), v. 3, Mar.-Apr. 1948, p. 131-136.

CA

7

Ferricyanide method for determination of sugars with precipitation of ferricyanide. P. S. Bukharov and R. T. Poddubnaya, (Central Sci. Research Lab., Liquor-Vodka Ind., Moscow). *Zhur. Anal. Khim.* 5, 300-4 (1950).
The method is based on titrating a standard $K_3Fe(CN)_6$ soln. with an inverted sugar soln. and pptg. $K_3Fe(CN)_6$ formed as $K_2Zn_3[Fe(CN)_6]_2$. Into a conical 250-300-ml. flask place 40 ml. of 1% standardized $K_3Fe(CN)_6$ soln. and 20 ml. of 2.5 N NaOH. Bring to a boil and titrate with the analyzed sugar soln. to which $ZnSO_4$ was added. The end point is indicated by complete decolorization of the soln. The $K_3Fe(CN)_6$ soln. is standardized against refined sugar. In analyzing the sugar contents of liquors, brandies, etc., the vol. taken should be such that its sugar content would be of the same order as the sugar content used for standardizing the $K_3Fe(CN)_6$. For detg. sugar in fruit juices, etc., with a small sugar content, the $K_3Fe(CN)_6$ should be accordingly weaker. The quantity of $ZnSO_4$ to be added to sugar soln. depends on the sugar content and ranges from 3.4 g. of $ZnSO_4$ per 100 ml. of sugar soln. when the latter contains 0.1 g. of sugar per 100 ml. to 20.0 g. of $ZnSO_4$ per 100 ml. of sugar soln. when the latter contains 0.5 g. of sugar per 100 ml. M. Hosh

1ST AND 2ND EDITIONS

PROCESSES AND PROPERTIES INDEX

1ST AND 2ND EDITIONS

CA

7

Electrometric ferrocyanide method for the determination of sugar. E. T. Podlubnaya and P. S. Bukharov. *Zhur. Anal. Khim.* 3, 131-6 (1948).—This method is based on titrating an alk. $K_3Fe(CN)_6$ soln. with the analyzed soln. The end point is indicated on a galvanometer. The titration is carried out in wide-neck 250-ml. Erlenmeyer flask charged with 40 ml. of 1% $K_3Fe(CN)_6$ soln. and 10 ml. of 2.5 N NaOH. The $K_3Fe(CN)_6$ soln. is standardized against invert sugar. The stopper of the flasks carries 2 electrodes made of Pt wire soldered into glass. One of the electrodes dips directly into the $K_3Fe(CN)_6$ soln. and the other, acting as a reference electrode, is placed inside a glass tube provided at its lower end with a stopcock and filled with a 1% alk. $K_3Fe(CN)_6$ soln. or with a soln. of $K_3Fe(CN)_6$ previously titrated and reduced with a sugar soln. The electrodes are connected to a galvanometer. Through the stopper passes the tip of a buret filled with the analyzed soln. The part of the buret below the stopcock is bent at 2 right angles so that the stem of the buret is removed from the Erlenmeyer flask by approx. 20 cm. This is to shield the soln. in the buret from the heat applied to the flask. To standardize the $K_3Fe(CN)_6$ soln., reduce cane sugar (99.8% saccharose) to a fine powder and dry to const. wt. over $CaCl_2$. Weigh 4.75 g., dissolve it in 50 ml. of 2% HCl, and invert it by heating for 10-15 min. at 100°. Cool rapidly, neutralize with Na_2CO_3 , transfer to a 1000-ml. volumetric flask, add H_2O to vol., bring soln. in an Erlenmeyer flask to a boil, and titrate. The solns. to be analyzed for sugar are treated in a similar manner. Analyses carried out by this method gave more accurate results than analyses by the Bertrand method. M. Hosh

ASH-16A METALLURGICAL LITERATURE CLASSIFICATION

FROM SYNDICATE

1948-50

FROM BOWERY

1948-50

1948-50

1948-50

1948-50

1948-50

ACCESSION NR: AP4043630

S/0056/64/047/002/0558/0563

AUTHOR: Podlubny*y, L. L.

TITLE: Formation of molecular ions in collisions of slow atoms

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 2, 1964, 558-563

TOPIC TAGS: molecular ion, particle collision, ionization cross section, quantum theory, excited state

ABSTRACT: It is shown that when atoms having energies 1--10 eV collide they form a molecular ion in a ground or weakly excited vibrational state, for which neither classical nor quasiclassical approximations can be employed, so that the relative motion of the interacting atoms must be described quantum-mechanically. To this end, the author uses the distorted wave approximation to calculate the transverse cross section of associative ionization as a function of the energy of relative motion of the colliding atoms. As an

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ACCESSION NR: AP4043630

example, the formation of NO^+ in the reaction $\text{N} + \text{O} \rightarrow \text{NO}^+ + \text{e}$ is discussed. The temperature dependence of the cross section for this reaction is obtained, with accuracy to a constant factor, and it is shown that the result is valid in the region 10^3 -- 10^4 °K. Although the cross section is obtained under the assumption that the molecular NO^+ ion is formed in a vibrational ground state, the results hold also for transitions into other states. Orig. art. has: 1 figure and 16 formulas.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power Engineering Institute)

SUBMITTED: 23Jan64

SUB CODE: NP

NR REF SOV: 001

ENCL: 00

OTHER: 013

Card 2/2

SEMEVSKAYA, V.Ye.; PODLUBNAYA, Ye.T.; IGNATOVA, A.V.

Improved methods for the analysis of fusel oil. Trudy TSNII SP
no.6:155-163 '58. (MIRA 14:12)

(Fusel oil--Analysis)

PODLUBNAYA, Ye.T.

Selection of an indicator for determining the alkalinity of water-
alcohol solutions. Trudy TSNIISP no.6:180-186 '58. (MIRA 14:12)
(Indicators and test papers) (Alcohol--Analysis)

PODLUBNAYA, Ye.T.; BABKOVA, A.N.; EPEL'MAN, A.A.

Ultraviolet absorption spectra of some essential oils and
aromatic alcohols. Trudy TSNIISP no. 8:117-122 '59.
(MIRA 14:1)

(Essences and essential oils—Spectra)
(Alcohols—Spectra)

PODLUBNAYA, Ye.T.; BABKOVA, A.N.; EPEL'MAN, A.D.; EPEL'MAN, A.A.

Interferometric method for determining the concentration of
essential oils from Δ^n in solutions. Trudy TSNIISP no. 8:151-
157 '59. (MIRA 14:1)
(Essences and essential oils) (Alcohols)

PODLUBNAYA, Ye.T.; TRANTSEVA, G.S.

Purification of vodka by activated carbon, and a control of the process based on the difference in oxidizability between vodka and the refined product. Trudy TSNIISP no.7:153-161 '59.

(MIRA13:9)

(Vodka) (Oxidation) (Production control)

PODLUBNYI, Semen Abramovich; FAYBISOVICH, I.L., kand. tekhn.nauk,
retsensent; YEFREMOV, V.K., inzh., otv. red.; KOSTON'YAN,
A.Ya., red.izd-va; SHKLYAR, S.Ya., tekhn. red.

[Installing mine equipment] Montash shakhtnogo oborudovaniia.
Moskva, Gosgortekhzdat, 1962. 406 p. (MIRA 16:3)
(Mining engineering--Equipment and supplies)

30173
S/159/01/000/005/010/014
1032/2514

24.6110

AUTHOR: Podlubnyy, L.I.

TITLE: On the theory of molecular forces

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Fizika, no.5, 1961, 90-93

TEXT: There are two methods for calculating molecular forces. The first method is based on the expressions for the London-Van der Waals forces obtained from the quantum mechanical perturbation theory which have to be integrated over the volume of the colloidal particles. On the other hand, in Lifshits' theory (Ref.3: ZhETF, 29, 94, 1955) the molecular forces arise as a result of long wavelength electromagnetic fluctuations in the space between the particles and may be obtained as the T_{44} components of the Maxwellian electric field tensor. In distinction to the first method, Lifshits' method leads to a closed macroscopic expression for the interaction force $F(\ell)$, where ℓ is the width of a plane-parallel gap. This expression is more accurate since it includes higher order terms. For two sufficiently rarefied media for which $\epsilon_0 - 1 \ll 1$ (ϵ_0 is the static dielectric constant), it is found that

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On the theory of molecular forces

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S/139/61/000/005/010/014
E032/E514

$$F(l) = - \text{grad}_l \left\{ (\epsilon_0 - 1)^2 \int \int_{\tau_{12}} d\tau_1 d\tau_2 U_1(r_{12}) + \right. \\ \left. + (\epsilon_0 - 1)^3 \int \int_{\tau_{12}} d\tau_1 d\tau_2 U_2(r_{12}) + \dots \right\} \quad (2)$$

The present author is concerned with the non-additive terms in the expansion and shows that for two identical dielectrics in vacuo the second term in the expansion (Ref.5)

$$\frac{hc}{32\pi^2\epsilon^4} \int_0^\infty \int_0^\infty \frac{x^3}{p^2} \left\{ \left[\left(\frac{s_0 + p}{s_0 - p} \right)^2 e^x - 1 \right]^{-1} + \left[\left(\frac{s_0 + p\epsilon_1(0)}{s_0 - p\epsilon_1(0)} \right)^2 e^x - 1 \right]^{-1} \right\} \times \\ \times dpdx = \frac{23hc(\epsilon_1(0) - 1)^2}{640\pi^2\epsilon^4} + f_1 + \dots; \\ s_0 = \sqrt{\epsilon_1(0) - 1 + p^2}. \quad (8)$$

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On the theory of molecular forces

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2032/2514

is

$$\frac{hc(\epsilon_1(0) - 1)^3}{768\pi^2\ell^4} \int_0^\infty dx x^3 e^{-x} \int_1^\infty \frac{dp}{p^6} \left(-2 + 6p^4 - 4p^6 \right) = - \frac{hc(\epsilon_1(0) - 1)^3}{56\pi^2\ell^4} \quad (9)$$

or in the presence of a medium:

$$F_1 = - \frac{hc}{56\pi^2\ell^4 \sqrt{\epsilon(0)}} \left(\frac{N}{\epsilon(0)} \frac{\partial \epsilon(0)}{\partial N} \right)^3 \quad (9')$$

where N is the number of particles per unit volume $\epsilon(0)$ is the dielectric constant of the mixture and $\epsilon_1(0)$ are the dielectric constants of the particles. It is, therefore, apparent that the terms in Eq.(2) have alternating signs and the molecular force between identical dielectrics is only attractive "on the average". There are 5 Soviet-bloc references.

ASSOCIATION: Dagestanskiy gosuniversitet imeni V.I.Lenin

Card 3/3 (Dagestan State University imeni V.I.Lenin)

SUBMITTED: June 25, 1960

PODLUBNYI, L.I.

Multiple interaction in quantum field theory. Zhur. eksp. i teor.
fiz. 35 no.4:1044-1045 0 '58. (MIRA 12:1)

1. Odesskiy pedagogicheskiy institut.
(Field theory)

84137

S/058/60/000/007/001/014

A005/A001

24.4500

Translation from: Referativnyy zhurnal, Fizika, 1960, No. 7, p. 26, # 15971

AUTHOR: Podlubnyy, L. I.

TITLE: Many-Particle Interaction¹⁹ and Level Shift of the He Atom

PERIODICAL: Nauk. zap. Odesk. derzh. ped. in-t, 1959, Vol. 23, pp. 154-164

TEXT: The author discusses the role of three-particle interactions in the He atom. The effective potential energy of the three-particle interaction is obtained to a first non-vanishing approximation of the Feynman-Dyson perturbation theory. The levels shift of the He atom resulting from this interaction must have the magnitude of the order of a few tenths of cm^{-1} and be small in comparison with the experimental errors. The estimation of the next approximations of the perturbation theory for the three-particle potential yields a shift value lesser by two orders; the final result was obtained by using numerical integration. X

M. I. Ryazanov

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

PODLUBNYI, L. I. Cand Phys-Math Sci -- (diss) ^{Frequent} ^{multi-} ~~Multiple~~ and ~~many~~-particle
interrelations in the quantum field theory." Odessa, 1959. 7 pp (Odessa State
Univ im I. I. Mechnikov), 150 copies. Bibliography at end of text ~~■~~
(11 titles) (KL, 47-59, 113)

PODLUBENYY, L.I.

Theory of molecular forces. *Izv.vys.ucheb.zav.; fiz.* no.5:90-93
'61. (MIRA 14:10)

1. Dagestanskiy gosudarstvennyy universitet imeni V.I.Lenina.
(Molecular theory)

L 23749-66 EWT(1) AT

ACC NR: AP6008108

SOURCE CODE: UR/0139/66/000/001/0037/0041

AUTHOR: Podlubnyy, L. I.

ORG: Moscow Power Engineering Institute (Moskovskiy energeticheskiy institut)

TITLE: ²¹Ionization in collisions of slow atoms

SOURCE: IVUZ. Fizika, no. 1, 1966, 37-41

TOPIC TAGS: particle collision, inelastic scattering, ionization cross section, electron recombination, helium

ABSTRACT: The author considers inelastic collisions of slow atoms, connected with the transition of one atom from the ground state into the continuous spectrum. The analysis is carried out in the adiabatic region and nonstationary perturbation theory is used. The fomulation of the problem is in the form of an integro-differential equation

Card

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L 23749-66

ACC NR: AP6008108

$$\begin{cases} i\hbar \dot{a}_1(t) = \int dx n(x) F_{1x}(t) a_1(t); \\ i\hbar \dot{a}_x(t) = F_{1x}^*(t) a_1(t); \end{cases}$$

$$F_{1x}(t) = V_{1x}(R) \exp \left\{ \frac{i}{\hbar} \int_{-\infty}^t dt_1 \Delta \right\}, \quad \Delta = \Delta E + V_{11} - V_{22}$$

with initial conditions

$$a_1(-\infty) = 1, \quad |a_1|^2 + \int dx n(x) |a_x|^2 = 1.$$

In the region of medium energies ($\sim 10^2$ -- 10^3 ev), the cross sections for ionization and recombination are obtained by a semi-empirical method based on these calculations for the reaction $\text{He} + \text{He} \rightarrow \text{He} + \text{He}^+ + e$. The calculated values (10^{-46} -- 10^{-47} cm⁴-sec for recombination and 1.8×10^{-14} cm² for ionization) are in good agreement with the available experimental data. Orig. art. has: 18 formulas and 1 table.

SUB CODE: 20/ SUBM DATE: 11May64/ ORIG REF: 002/ OTH REF: 004

Card

2/206R

AUTHOR: Podlubnyy, L.I.

SOV/126-8-5-28/29

TITLE: Dispersion Equation for an Electron Plasma¹ in a Magnetic Field¹

PERIODICAL: Fizika metallov i metallovedeniye, Vol 8, 1959, Nr 5, pp 796-798 (USSR)

ABSTRACT: Recently (Refs 1, 2) a method was developed for the calculation of specific properties (energy spectrum, distribution function) of Bose-Fermi systems of quasi-particles, using Green's functions. In particular, if the corresponding Schroedinger equation is solved, a study can be made of the change in the spectrum of oscillations of an electron plasma placed in a constant uniform field. For example, using the function given by Eq (1), it is possible to elucidate the importance of $\epsilon(E)$ to the contribution of the "neutral" component to the dielectric constant. However, this involves considerable computational difficulties. Since, in the momentum representation one has Eq (2), it is much simpler to limit one's attention to the first two terms in the expansion of the electron-hole Green function in powers of the external field (Eq 3). An analogous expansion can be obtained for the case of a constant ✓

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1/2

SOV/126-8-5-28/29

Dispersion Equation for an Electron Plasma in a Magnetic Field

uniform magnetic field H . In this case it is convenient to choose the vector potential to be of the form given by Eq (4). Using the method set out in Ref 2, the Green function for the plasma $DF(k)$ is given by Eq (5), where $\eta_1(k)$ is given by the formula derived in Ref 2, while the term containing the external magnetic field is given by Eq (6), provided that the isotropic approximation is used. Hence, if the integrand in Eq (6) is expanded in powers of k , one obtains Eq (7). The approximations and units used in the derivation of this equation are explained in Ref 2. It follows from Eqs (5)-(7) that the external magnetic field changes the spectral limit and can upset the plasma oscillations. This discussion does not apply to the case of strong fields but in that case one cannot separate plasma oscillations into longitudinal and transverse.

There are 3 Soviet references.

ASSOCIATION: Odesskiy pedagogicheskiy institut
 (Odessa Institute of Education)
 SUBMITTED: March 31, 1959

Card
 2/2

S/058/61/000/006/004/06.3
A001/A101

24.4400

AUTHOR: Podlubnyy, L.I.

TITLE: On one generalization of field theory equations

PERIODICAL: Referativnyy zhurnal. Fizika, no. 6, 1961, 25, abstract 6A275 ("Nau-
chn. zap. kafedr matem., fiz. i yestestvozn. Odessk. gos. ped. in-t",
1959, v. 24, no. 1, 27 - 28)

TEXT: The author shows that the results of his previous work (RZhFiz, 1959,
no. 12, 26,589) can also be arrived at by reformulation of the expression for the
four-dimensional interval of the special relativity theory (consideration of the
finite volume of a real light source, i.e., existence of a structure at a world
point).

[Abstracter's note: Complete translation]

Card 1/1

24(5)

APPROVED FOR RELEASE: 07/13/2001

SOV/56-35-4-39/52

CIA-RDP86-00513R001341430011-3"

TITLE: On Multiple Interaction in the Quantum Field Theory
(O kratnom vzaimodeystvii v kvantovoy teorii polya)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958,
Vol 35, Nr 4, pp 1044-1045 (USSR)

ABSTRACT: In the present paper an expression is derived in closed
form for the effective potential of the multiple interaction
of 2 particles. Calculation was carried out by the usual
method developed by Feynman-Dyson (Dayson) in $\|E - m\| \ll m$
approximation, when it is possible, in the development of
the energy of a free particle (e.g. of an electron)

$|E_n| = m + p_n^2/2m + \dots$ to confine oneself to the first term
 $|E_n| \sim m$. The corresponding Green (Grin) function is written
down. This function, however, does not mean a transition to
the theory with fixed source ($m \rightarrow \infty$). Next, Green's function
is determined for a second-order process (in which the inter-
acting particles exchange n virtual quanta). The simplicity

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SOV/56-35-4-39/52

On Multiple Interaction in the Quantum Field Theory

of the results obtained is due to the elimination of certain poles. There are 3 references, 2 of which are Soviet.

ASSOCIATION: Odesskiy pedagogicheskiy institut
(Odessa Pedagogical Institute)

SUBMITTED: June 7, 1958

Card 2/2

24 (5)

AUTHOR:

Podlubnyy, L. I.

SOV/56-37-3-60/62

TITLE:

The Nonadditivity of the London - Van der Waals Forces

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,
Vol 37, Nr 3(9), pp 888 - 889 (USSR)

ABSTRACT:

The so-called dispersion forces of the interaction between neutral atoms are not additive; additivity prevails only in the first approximation of the perturbation theory, which differs from zero. In the present "Letter to the Editor" the author investigates the terms of third order (with respect to the coupling constant) of the perturbation series and deduces an expression for the energy of the dispersion interaction of three hydrogen atoms, which contains the interatomic distances R_1, R_2, R_3 as parameters; the delay effect is taken into account. Like Dzyaloshinskiy (Ref 1) for the investigation of the interaction of two atoms, the author employs the Feinman-Dyson method. For processes such as are represented in form of graphs in figure 1, the formula

$$U(R_1, R_2, R_3) = -132 \alpha_1(0) \alpha_2(0) \alpha_3(0) / \pi R_1 R_2 R_3 (R_1 + R_2 + R_3)^7$$

Card 1/2

The Nonadditivity of the London - Van der Waals Forces SOV/56-37-3-60/62

is obtained. The α_i denote the polarizability

$\alpha(\omega) = \sum_n \frac{2\omega_{no}}{\omega_{no}^2 - \omega^2} |d_{on}|^2$, where d_{on} is the matrix element of the dipole moment. This formula holds for interatomic distances which are great compared to the characteristic wave length λ_0 in the atomic spectrum; ($R_1, R_2, R_3 \gg \lambda_0$; exchange forces are of no importance, effects of higher multipolarity are neglected). There is 1 Soviet reference.

ASSOCIATION: Odesskiy pedagogicheskiy institut (Odessa Pedagogical Institute)

SUBMITTED: June 6, 1959

Card 2/2

PODLUBNYI, S.A., inzh.

Efficient method of mounting mine hoisting machines. Shakht.
stroil. 4 no.7:21-25 J1 '60. (MIRA 13:7)
(Mine hoisting) (Hoisting machinery)

KAMINSKIY, D.N., inzh.; PODLUBNYI, S.A., inzh.

Bring to a higher technical level the assembly operations in
mine building. Shakht.stroi. 5 ro.12:3-5 D '61. (MIRA 14:12)
(Coal mining machinery)
(Mining machinery)

PODLUBNYY S.A.

AGALINA, M.S., inzh.; AKUTIN, T.K., inzh.; APRESOV, A.M., inzh.; ARISTOV,
S.S., kand. tekhn. nauk.; BELOSTOFSKIY, O.B., inzh.; BERLIN, A.Ye., inzh.;
BESSKIY, K.A., inzh.; BLYUM, A.M., inzh.; BRAUN, I.V., inzh.; BRODSKIY,
I.A., inzh.; BURAKAS, A.I., inzh.; VAYNMAN, I.Z., inzh.; VARSHAVSKIY,
I.N., inzh.; VASIL'YEVA, A.A., inzh.; VORONIN, S.A., inzh.; VOYTSEKHOVSKIY,
L.K., inzh.; VRUBLEVSKIY, A.A., inzh.; GERSHMAN, S.G., inzh.;
GOLUBYATNIKOV, G.A., inzh.; GOHLIN, M.Yu., inzh.; GRAMMATIKOV, A.N., inzh.;
DASHEVSKIY, A.P., inzh.; DIDKOVSKIY, I.L., inzh.; DOBROVOL'SKIY, N.L., inzh.;
DROZDOV, P.F., kand. tekhn. nauk.; KOZLOVSKIY, A.A., inzh.; KIRILENKO,
V.G., inzh.; KOPELYANSKIY, G.D., kand. tekhn. nauk.; KORETSKIY, M.M., inzh.;
KUKHARCHUK, I.N., inzh.; KUCHER, M.G., inzh.; MERZLYAK, M.V., inzh.;
MIRONOV, V.V., inzh.; NOVITSKIY, G.V., inzh.; PADUN, N.M., inzh.;
PANKRAT'YEV, N.B., inzh.; PARKHOMENKO, V.I., kand. biol. nauk.; PINSKIY,
Ye.A., inzh.; PODLUBNYY, S.A., inzh.; POFAZHENKO, F.F., inzh.; PUZANOV,
I.G., inzh.; REDIN, I.P., inzh.; REZNIK, I.S., kand. tekhn. nauk.;
ROGOVSKIY, L.V., inzh.; RUDERMAN, A.G., inzh.; RYBAL'SKIY, V.I., inzh.;
SADOVNIKOV, I.S., inzh.; SEVER'YANOV, N.H., kand. tekhn. nauk.; SEMESHKO,
A.T., inzh.; SIMKIN, A.Kh., inzh.; SURDUTOVICH, I.N., inzh.; TROFIMOV,
V.I., inzh.; FEFER, M.M., inzh.; FIALKOVSKIY, A.M., inzh.; FRISHMAN,
M.S., inzh.; CHERESHNEV, V.A., inzh.; SHESTOV, B.S., inzh.; SHIFMAN,
M.I., inzh.; SHUMYATSKIY, A.F., inzh.; SHCHERBAKOV, V.I., inzh.;
STANCHENKO, I.K., otv. red.: LUSHIN, G.L., inzh., red.: KRAVTSOV, Ye.P.,
inzh., red.; GRIGOR'YEV, G.V., red.; KAMINSKIY, D.N., red.; KRASOVSKIY,
I.P., red.; LEYTMAN, L.Z., red. [deceased]; GUREVICH, M.S., inzh., red.;
DANILEVSKIY, A.S., inzh., red.; DEMIN, A.M., inzh., red.; KAGANOV,
S.I., inzh., red.; KAUFMAN, B.N., kand. tekhn. nauk., red.; LISTOPADOV,
N.P., inzh., red.; MENDELEVICH, I.R., inzh., red. [deceased];
(continued on next card)

AGALINA, M.S.... (continued) Card 2.

PENTKOVSKIY, M.I., inzh., red.; RCZENBERG, B.M., inzh., red.; SLAVIN, D.S., inzh., red.; FEDOROV, M.P., inzh., red.; TSYMBAL, A.V., inzh., red.; SMIRNOV, L.V., red. izd-va.; PROZOROVSKAYA, V.L., tekhn. red.

[Mining ; an encyclopedic handbook] Gornoe delo; entsiklopedicheskiy spravochnik. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po ugol'noi' promyshl. Vol. 3. [Organization of planning; Construction of surface buildings and structures] Organizatsiia proektirovaniia; Stroitel'stvo zdaniy i sooruzheniy na poverkhnosti shakht. 1958. 497 p. (MIRA 11:12)

(Mining engineering)

(Building)

PODLUBNYI, Semen Abramovich, inzh.; FAYBISOVICH, I.L., otv. red.; KRASOVSKIY,
I.P., red. 1st-va.; SHILYAR, S.Ya., tekhn. red.

[Installing power cables in the construction of coal mines] Montazh
silovykh kabelei pri stroitel'stve ugol'nykh shakht. Moskva,
Ugletekhizdat, 1958. 110 p. (MIRA 11:10)
(Mining engineering)
(Electric cables)

PODLUBNYI, Semen Abramovich; YEFREMOV, V.K., otr. red.; KOSTOM'YAN, A.Ya.,
red. izd-va; BOLDYREVA, Z.A., tekhn. red.

[Cable work in mines] Montazh shakhtnykh kabel'nykh lini. Moskva,
Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 185 p.
(MIRA 14:6)

(Electricity in mining) (Electric cables)

PODLUBNYI, S.A., insh.

The PD-IM unit for sinking vertical mine shafts. Bezop.truda v
prom. 2 no.3:27-28 Mr '58. (MIRA 11:3)

1. Giproskhkhtostroy mash.
(Mining machinery)

PODLUBNYY, S.A.

GORNOPOL'SKIY, Abram Isaakovich; RAPOPORT, Pavel Isaakovich; ~~PODLUBNYY, S.A.~~
otvetstvennyy redaktor; NADKINSKAYA, A.A., tekhnicheskiy redaktor.

[Electrician engaged in operations of sinking vertical mine shafts]
'Elektrolesar' na prokhodke vertikal'nykh stvolov, shakht. Moskva,
Ugletekhizdat, 1956. 247 p. (MLRA 10:4)
(Electricity in mining) (Shaft sinking)

RAPOPORT, Pavel Isaakovich; GORNOPOL'SKIY, Abram Isaakovich; ~~PODLUBNYI~~,
S.P., nauchnyy red.; ROMANOV, B.V., red.; GOROKHOV, Yu.N.,
~~tekh.n.red.~~

[Modern coal mining machines] Sovremennyye mashiny dlia prokhodki
vyrabotok ugol'nykh shakht. Moskva, Vses. uchebno-pedagog. izd-vo
Trudrezervizdat, 1958. 165 p. (MIRA 11:12)
(Coal mining machinery)

1. SEMAK, I. L., PODLUTSKIY, N. P.
2. USSR (600)
4. Cattle - Feeding and Feeding Stuffs
7. Feeding cattle on sugar beet pulp, Sov. zootekh. 8, no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

1. SEMAK, I. L., PODLUTSKIY, N. P.

2. USSR (600)

4. Bagasse

7. Feeding cattle on sugar beet pulp. Sov. zootekh. 8, no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

PODLUZHAYAY, A.

Better service for the populace. Zhil.-kom.khoz. 4 no.2:28-29 '54.
(MLRA 7:5)

1. Stiral'nyy master fabriki-prachechnoy No.3, Moscow.
(Moscow--Laundries, Public)

S/182/60/000/005/003/006
A161/A029

AUTHORS: Korolev, A.V.; Podluzhnaya, I.V.

TITLE: Technological Lubricants for Stamping Thin Sheet Steel

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, 1960, No. 5, pp. 14 - 17

TEXT: More than 70 types of greases with different fillers were tested at the Laboratoriya obrabotki metallov davleniyem (Laboratory of Metalworking by Pressure) of the Institut mashinovedeniya AN USSR (Institute of Science of Machines of the AS USSR) on a plate device in a P-5 (R-5) test machine. Test plates coated with grease are moving downward between machine planks under 600 kg pressure and with a rate of 48 mm/min. The moving effort is fixed on a scale. The best result was obtained with gun grease per GOST 3005-51 (GOST 3005-51). Once coated on the plates, it stayed on for five tests in a layer getting thinner (from 0.015 to 0.01 mm) in the beginning, and becoming stable afterwards (thinning is explained by squeezing out). The fillers tested were highly dispersed powders and laminar fillers, e.g., powdered aluminum, oxides of iron, chromium and nickel, chalk and starch. Talc was used as laminar filler. Two greases used in the press shop of Avtozavod im. Likhacheva (Automobile Works im. Likhachev) were also tested.

Card 1/2

PODLUZHNYA, M.Ya., kand. med. nauk (Perm')

History of the training of subprofessional medical workers in the
Perm Government in prerevolutionary times. Trudy Perm. gos. med.
Inst. 43:185-192 '63. (MIRA 17:6)

POGORELN, Ya. M. Ya., kand. med. nauk (Perm')

Relations between industrial and preventive medicine in the USSR.
Trudy Perm. gos. med. inst. 43:304-311 '63. (MIR: 1963)

AFANAS'YEV, Ya. (g.L'vov); TKACH, M., instruktor; KACHAN, L.;
SIMYGANOVSKIY, V.; VOLKOV, A.; FRID, L. (g.Minsk); PODLUZHNTY, A.
(g.Kiyev); YEVSTYUGIN, N.

Letters and correspondence. Sov. profsoiuzy 17 no.24:42-43 D '61.
(MIRA 14:12)

1. Krivorozhskiy gorodskoy komitet Kommunisticheskoy partii
Ukrainy (for Tkach). 2. Nestatnyy korrespondent zhurnala
"Sovetskiye profsoyuzy" g. Vitebsk (for Kachan). 3. Predsedatel'
rabochego komiteta sovkhoza "Cherevkovskiy" Krasnoborskogo rayona,
Arkhangel'skoy obl. (for Volkov). 4. Neshtatnyy korrespondent
zhurnala "Sovetskiye profsoyuzy", Sverdlovskaya obl. (for
Yevstyugin).

(Community centers)
(Evening and continuation schools)

PODLUZHNYI, G.A.

Use of the Ch'en-Chiu method in patients with sexual disorders caused by chronic prostatitis. Urologiya. no.5:41-43 '64. (MIRA 18:8)

1. Kafedra urologii (zav. - prof. V.T.Karpukhin) Zaporozhskogo instituta usovershenstvovaniya vrachey imeni Gor'kogo.

PODIUZHNYI, G.A.

Secondary lumbosacral radiculitis (funiculitis) in chronic
prostatitis. Zhur. nevr. i psikh. 65 no.8:1191-1193 '65.

(MIRA 18:8)

1. Kafedra urologii (zaveduyushchiy - prof. V.T. Karpukhin)
Zaporozhskogo instituta usovershenstvovaniya vrachey im.
Gor'kogo.

PODLUZHNYI, P.A.

Medical lectures combined with motion pictures as a form of
sanitary publicity. Zdrav.Ros.Feder. 7 no.2:43-44 F '63.
(MIRA 16:4)

(MOTION PICTURE IN MEDICINE) (HEALTH EDUCATION)

PODLVEMSKI, Farm. J.K., Dr.

Rauwolfia serpentina, substitution, isolation of alkaloid, preparations. Farm.polska 11 no.4:84-89 Apr '55.

(RAUWOLFIA ALKALOIDS
serpentine, preparation)

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
ca A volumetric method for measuring the surface tension of liquids. B. H. Rodgers. <i>Lab. Pract.</i> (U. S. S. R.) 15, No. 9, 20-1 (1940).—The proposed method of measuring the surface tension is based on the fact that the greatest part of the liquid that is retained on a flat dish with sharp edges is due to the surface tension of the liquid. The apparatus described consists of a thin-wall brass vessel (diam. 61.8 mm. and depth 2.3 mm.) with sharp edges. The accuracy of the detn. increases with increase in the diam. of the vessel. The liquid is poured onto the surface of the vessel from a 5-ml. pipet until it begins to overflow. For testing the accuracy of the method 8 solns. of phenol of various concns. were used. There was found a definite relation between the surface tension of the liquid and the max. vol. of liquid that is retained in a flat dish with sharp edges. This relation permits detg. the surface tension rapidly. The expl. error does not exceed 3%. W. R. Henn																			
ASB-55A METALLURGICAL LITERATURE CLASSIFICATION																			
FROM SYNDICATE										ESTABLISHED									
100000 02										100000 02									
100000 02										100000 02									

PODLUZHNYY, P.A. (Perm')

Movement for sanitary culture in Sverdlovsk District of Perm'.
Zdrav. Ros. Feder. 7 no. 5:42-43 My'63. (MIRA 16:6)
(PERM' —SANITATION)

BARANOV, L.A.; PAVLOV, B.A., starshiy inzh.; PODLYASHUK, A.B., inzh.,
red.

[Work safety for laying brick walls at the level of roofs made
of large slabs] Obespechenie bezopasnosti truda pri kladke
kirpichnykh sten na urovne perekrytiy iz krupnykh panelei.
Moskva, Gosstroizdat, 1960. 19 p. (MIRA 14:12)

1. Akademiya stroitel'stva i arkhitektury SSSR, Institut orga-
nizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
Byuro tekhnicheskoy informatsii. 2. Glavnyy inzh. sektora
tekhniki bezopasnosti Nauchno-issledovatel'skogo instituta orga-
nizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu
Akademii stroitel'stva i arkhitektury SSSR (for Baranov). 3. Sektor
tekhniki bezopasnosti Nauchno-issledovatel'skogo instituta orga-
nizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu
Akademii stroitel'stva i arkhitektury SSSR (for Pavlov).
(Bricklaying--Safety measures)

BRODSKIY, A.Ya., kand.tekhn.nauk; PODLYASHUK, A.B., inzh., red.

[Welding joints of reinforcements of reinforced concrete construction elements] Svarka stykov armatury zhelezobetonnykh konstruktсий. Moskva, 1959. 27 p. (MIRA 13:6)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. Byuro tekhnicheskoy informatsii. 2. Rukovoditel' svarochnogo kabineta laboratorii metallicheskih konstruktсий Tsentral'nogo nauchno-issledovatel'skogo instituta stroitel'nykh konstruktсий Akademii stroitel'stva i arkhitektury SSSR (for Brodskiy).
(Reinforced concrete) (Steel--Welding)

PODLYASHUK, A.B., inzhener

Builder-inventors. Stroi.prom.25 no.1:20-23 Ja.'47. (MLRA 8:12)
(Building, Iron and steel) (Cranes, derricks, etc.)

1. POLLYASHCHUK, A. I.; Inzh
2. USSR (600)
4. Engineering Research
7. Work of the Bureau for Promoting Rationalization and Invention of the
Ministry of Constructing Heavy Industry Enterprises. Biml. stroi. tekhn.
BRIZ Mintyazhstroya
9. Monthly List of Russian Accessions, Library of Congress,
September 1952. UNCLASSIFIED

PODLYASHUK, A. P.

23142 Novyye shtukaturnyye mekhanizmy. Gor. Kho z-bo Moskv, 1949,
No. 6, c. 18-21.

SO: LETOPIS' NO. 31, 1949

PODLYASHUK, A. B.

PA 28T24

~~USSR/Engineering~~
Construction Industry
Cranes

Jan 1947

"Designers and Inventors," A. B. Podlyashuk, Engr,
5 pp

"Stroitel'naya Promyshlennost'" No 1

Article discusses new developments in construction
machinery: 1) telescopic stand for raising metal
structure framework installed in industrial buildings,
and 2) portable rotating tower crane for small build-
ing construction systems.

BS

28T24

1. PODLYASHUK, A. B., Eng.
2. USSR (600)
4. Plastering
7. New plastering machines, Stroi, prom. 30 No. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

PERESLENI, N.A. (Moskva); PODLYASHUK, Ye.I. (Moskva)

Changes in the bones following X-ray therapy of angiomas
in children. Trudy TSentr. nauch.-issl. inst. rentg. i
rad. ll no.1:279-285 '64. (MIRA 18:11)

PODLYASHUK, Ye.L.; KHRAMTSOVA, G.G.

Methodology for X-ray therapy of chronic inflammatory diseases
of the accessory sinuses of the nose, Vest. rent. i rad. 40
no.1:55-59 Ja-F '65. (MIRA 18:6)

1. Rentgenoterapevticheskiy otdel (zav.- doktor med. nauk
I.A. Pereslegin) Nauchno-issledovatel'skogo rentgeno-radiologi-
cheskogo instituta Ministerstva zdравookhraneniya RSFSR, Moskva.

PODIYASHUK, Ye.L.

X-ray treatment of an extensive vascular tumor in a 2-month-old infant. Vest. rent. i rad. 40 no.3:3-4. My-12 '65.

(MIRA 18:7)

1. Rentgenoterapevticheskiy otdel (rav. - prof. I.A. Pereslegin)
Nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta
Ministerstva zdravookhraneniya RSFSR, Moskva.

PODLYASHCHUK, L.A.

ASHURKOV, V.I., inzhener, laureat Stalinskoy premii; STRASHKO, A.Ya., inzhener, laureat Stalinskoy premii; KHODOV, M.P., inzhener, laureat Stalinskoy premii; PODLYASHCHUK, L.A., inzhener.

The SKD-25 diesel electric caterpillar crane. Mekh.trud.rab. 9 no.4:
24-26 Ap '55. (MLRA 8:7)
(Cranes, derricks, etc.)

SMORODIN, I., kand. sel'skokhoz. nauk; PODLIASSKIY, D.

Wide row single-seed planting of corn. Zemledelie 27 no. 5:43-45
My '65. (MIRA 18:6)

1. Donskoy nauchno-issledovatel'skiy institut sel'skogo khozyaystva.

PODMAGORSKI, H.; SKINDEROWICZ, B.

Surveying in connection with building a coal pit and constructing
a shaft tower. (Conclusion) p. 348. PRZEGŁAD GEODEZYJNY.
Warszawa. Vol. 11, no. 10, Oct. 1955.

SOURCE: East European Accessions List (EEAL), IC, Vol. 5, no. 3, March 1956

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Calculation of the cooling of a gas stream in a cylindrical
apparatus. Khim. prom. 41 no.10:775-778 O '65.

(MIRA 18:11)

BACHURIN, N.I., inzh.; VOLKOV, S.S., inzh.; GORODETSKIY, S.S., prof.,
 doktor tekhn. nauk; GUSEV, S.A., dotsent, kand. tekhn. nauk;
 ZHUKHOVITSKIY, B.Ya., dots., kand. tekhn. nauk;
 IVANOV-SMOLENSKIY, A.V., dots., kand. tekhn. nauk; KIFER,
 I.I., dots., kand. tekhn.nauk; KORYTIN, A.A., starshiy pre-
 podavatel'; KULIKOV, F.V., dots.; NIKULIN, N.V., dots., kand.
 tekhn. nauk; PODMAR'KOV, A.N., dots.; PRIVEZENTSEV, V.A., prof.,
 doktor tekhn. nauk; RUMSHINSKIY, L.A., dots., kand. fiz.-mat.
 nauk; SOBOLEV, V.D., dots., kand. tekhn.nauk; URLAPOVA, M.N.,
 inzh.; TIKHOMIROV, P.M., dots., kand. tekhn. nauk; FEDOROV,
 A.A., dots., kand. tekhn. nauk; CHUNIKHIN, A.A., dots., kand.
 tekhn. nauk; CHILIKIN, M.G., prof., glav. red.; GOLOVAN, A.T.,
 prof., red.; GRUDINSKIY, P.G., prof., red.; PETROV, G.N., prof.,
 doktor tekhn. nauk, red.; FEDOSEYEV, A.M., prof., red.; ANTIK,
 I.V., inzh., red.; BORUNOV, N.I., tekhn. red.

[Electrical engineering handbook]Elektrotekhnicheskii spra-
 vochnik. 3., perer. i dop. izd. Pod obshchei red. A.T.
 Golovana i dr. Moskva, Gosenergoizdat. Vol.1. 1962. 732 p.
 (MIRA 15:10)

1. Moskovskiy energeticheskiy institut (for Golovan, Grudinskiy,
 Petrov, Fedoseyev, Chilikin, Antik).
 (Electric engineering--Handbooks, manuals, etc.)

BAKMAN, M.Ye. (Moskva); PODMAR'KOV, A.N. (Moskva); RUDASHEVSKIY, G.Ye.
(Moskva)

Germanium strain guages. Izv. AN SSSR. Otd. tekhn. nauk. Mekh. i
mashinostr. no. 1:189-190 Ja-F '61. (MIRA 14:2)
(Strain gauges) (Germanium)

PODMAYSTROVICH, V.I. (Chernovtsy, ul.29 marta, d.39a, kv.2)

Case of duplication of the appendix. Nov. khir. arkh. no.12:84-85
D '61. (MIRA 14:12)

1. Khirurgicheskoye otdeleniye (zav. - V.I.Podmaystrovich)
Chernovitskoy zhelenodorozhnoy bol'nitsy i prozektura (zav. -
prof. N.M.Shinkerman) Chernovitskoy oblastnoy klinicheskoy
bol'nitsy.

(APPENDIX (ANATOMY)--ABNORMITIES AND DEFORMITIES)

PODMAYSTROVICH, V.I. (Chernovtsy, ul.29 Marta, d.39a, kv.2)

Observation of foreign bodies in the stomach. Nov.khir.arkh. no.6:
107 H-D '59. (MIRA 13:4)

1. Khirurgicheskoye otdeleniye Chernovt'skoy zheleznodorozhnoy
bol'nitsy.

(STOMACH--FOREIGN BODIES)

PODMAYSTROVICH, V.I. (Chernovtsy, ul. 29 Bereznyaya, d.39a, kv.2)

New variant of surgery for inguinal hernias in cases of tissue atrophy in the inguinal region. Nov.khir.arkh. no.2:114 (MIRA 11:6)

1. Khirurgicheskoye otdeleniye (zav. - V.I. Podmaystrovich) bol'nitsy stantsii Chernovtsy L'vovskoy zheleznoy dorogi.
(HERNIA)

PODMAYSTROVICH, V.I., zaveduyushchiy khirurgicheskim otdelom; DRESVYANSKAYA, I.I.,
~~nachal'nik.~~

Rare case of the abnormal position of the intestines. Vest.khir. 73 no.5:61
S-O '53. (MLRA 6:11)

1. Khirurgicheskoye otdeleniye Rovenskoy zheleznodorozhnoy bol'nitsy.
(Intestines)